

**aivancity**

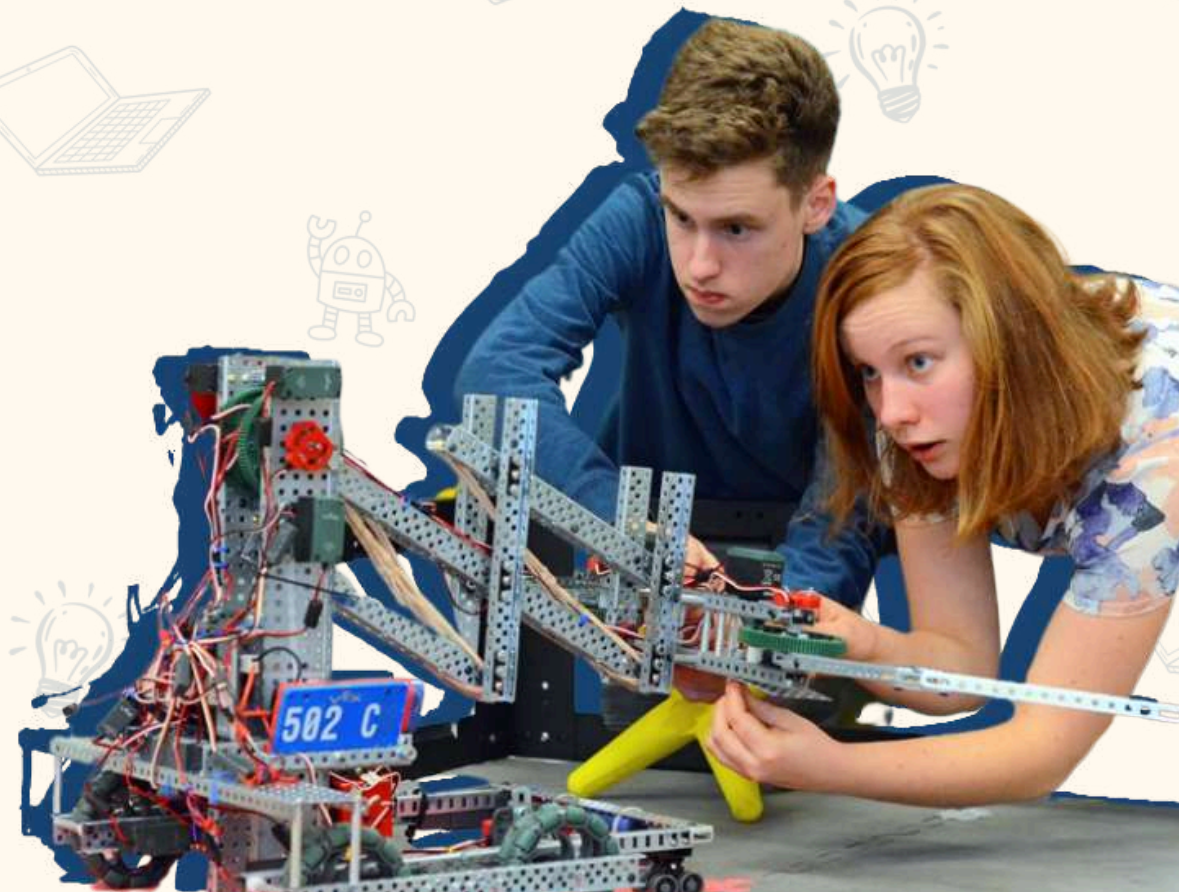
School of AI & Data for Business & Society

Paris Region · Nice Côte d'Azur

# Aivancity's Understanding AI & Big Data

Gurugram Summer 2025

Grades 9-12



**R** BIG RED  
EDUCATION

BEYOND THE CLASSROOM.

# WORKSHOP OVERVIEW

## **Hands-on AI exploration and project development**

Students will work on real AI projects, including creating chatbots, experimenting with facial recognition, and exploring robotics, providing practical knowledge and a deeper understanding of AI technologies.

## **Discover AI careers and transform tomorrow's jobs**

Discover the wide range of cool AI careers and learn how this technology is changing the way we work. This program will give you a sneak peek into the future job market and show you how AI skills can open up amazing opportunities. Join us and get a head start in the world of AI!

**Start Your Journey NOW!**

# WORKSHOP DETAILS



Students get a **Completion Certificate** from the university.



Opportunity to get a **Letter of Recommendation** from the university.



26th - 29th May 2025  
9am - 4pm IST



Pathways School Gurgaon,  
**Gurugram**



Grades 9-12



INR 50,000 + GST



Deadline: 31st March 2025

**Priority Deadline:** 5th May 2025





# #1 SCHOOL

## IN AI & DATA SCIENCE IN FRANCE

A modern pedagogy based on the hybridization between disciplines

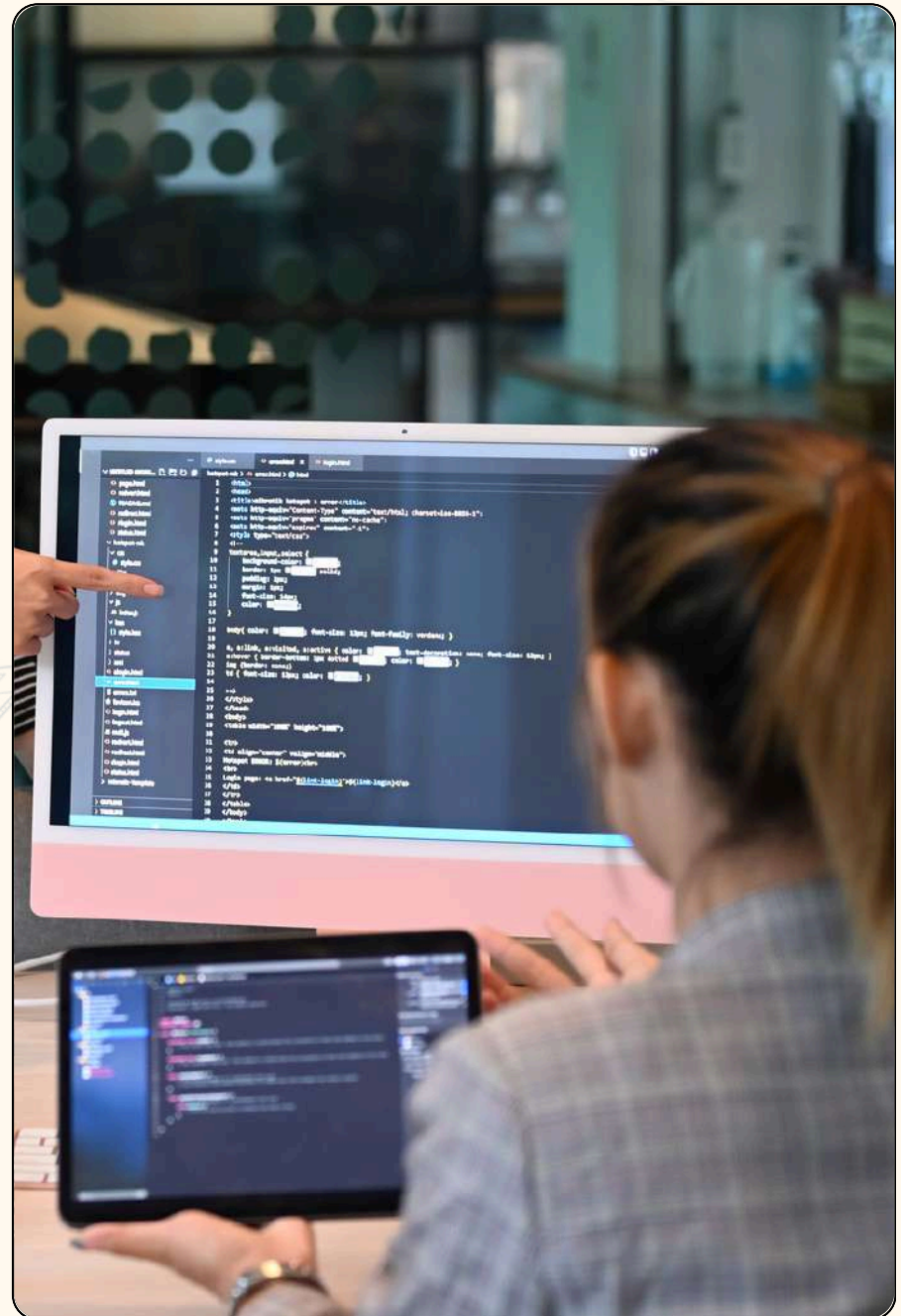


**Learn from Aivancity Experts!**

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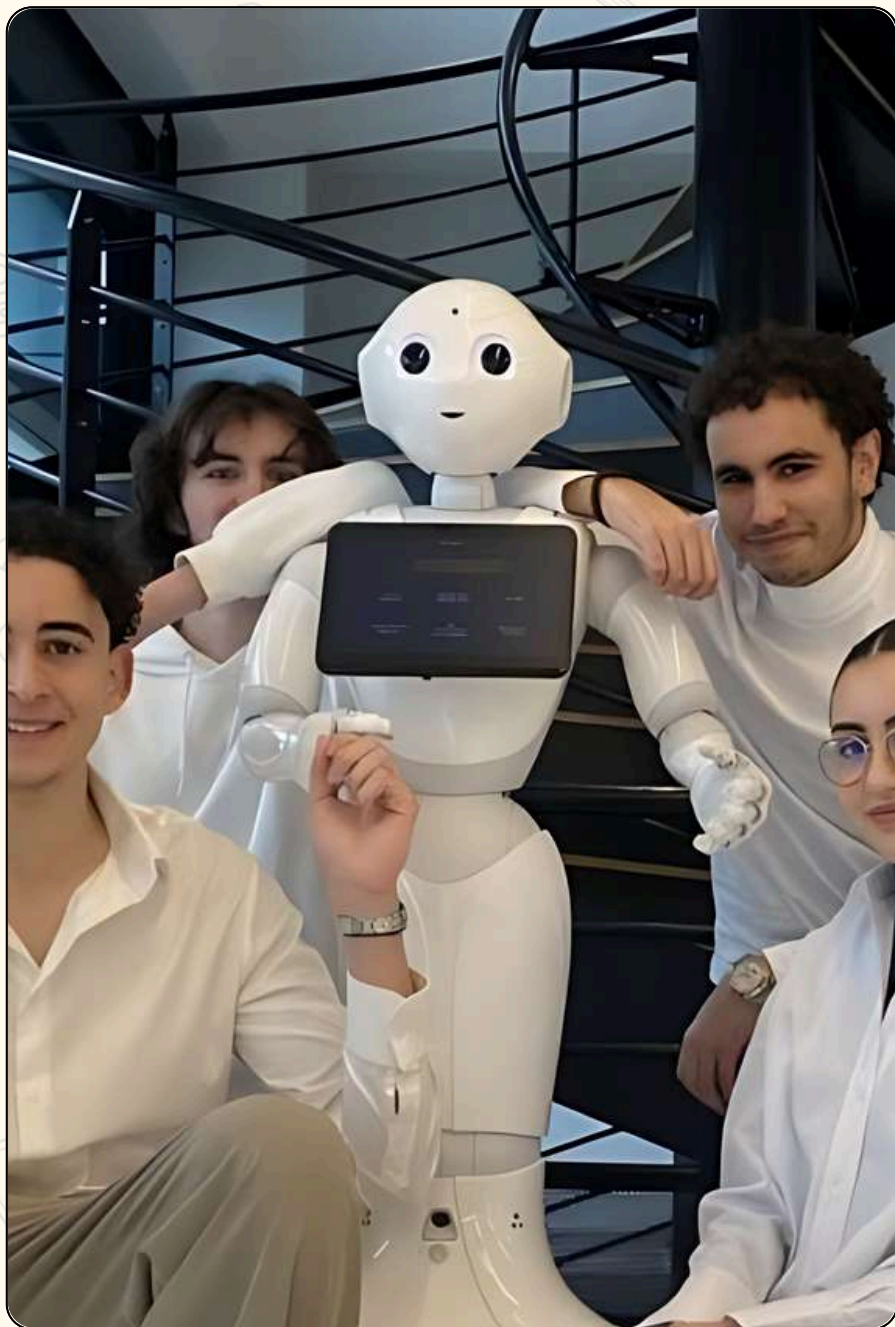
## MODULE 1: AI APPLICATIONS & DATA ANALYSIS

- Introduction to AI with examples
- Applications of AI in various domains: Analytics, Video Games, Vehicles, Smart city, etc
- Data collection and analysis
- Project: Data collection and analysis- Part 1



THE CURRICULUM





## MODULE 2: HANDS-ON MACHINE LEARNING

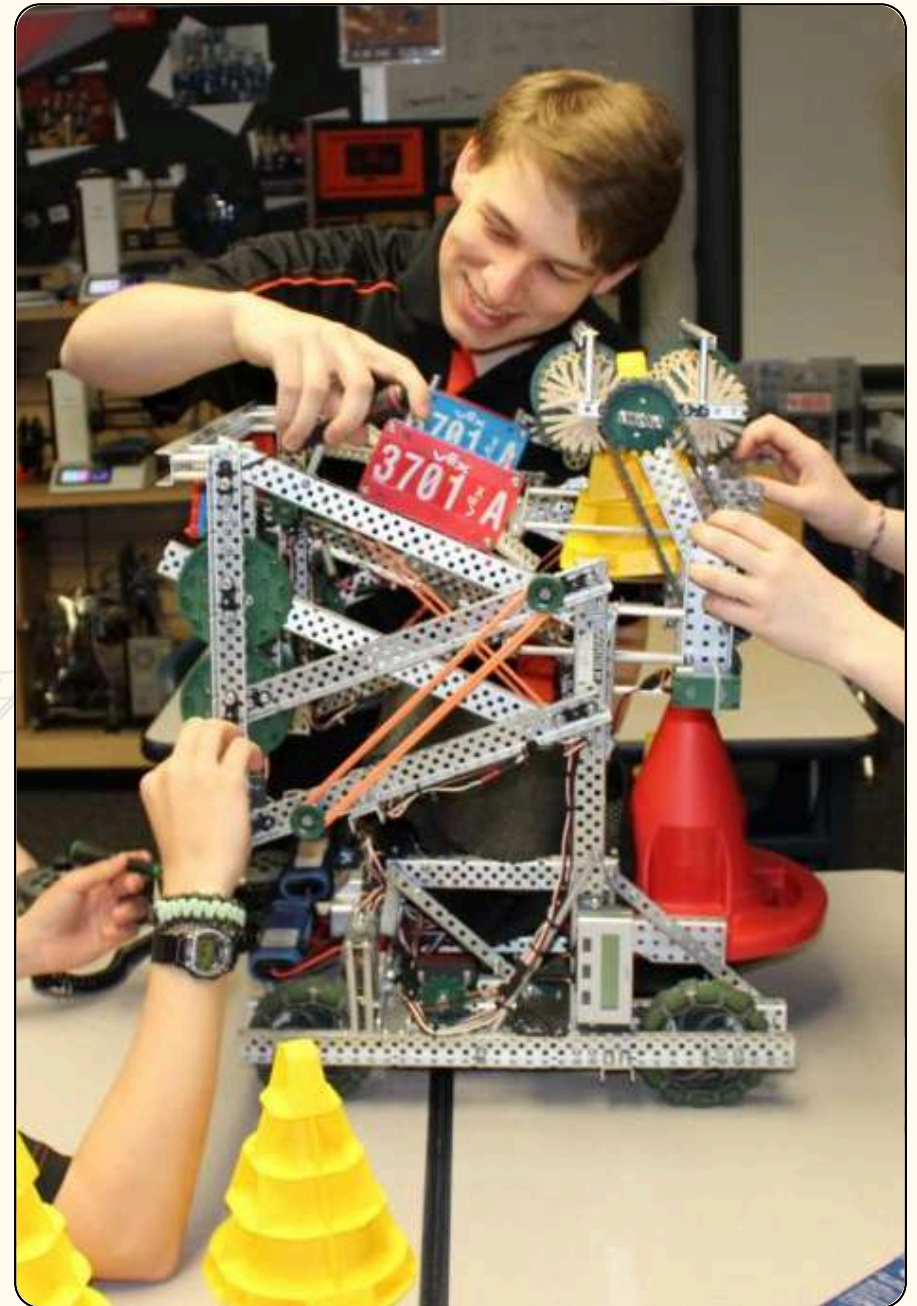
- Project : Data collection and analysis- Part 2
- Machine Learning: Examples, concepts, how it works; Image Detections
- Practical session on simple Machine Learning Model: Using no-code framework & Radiology of animal

THE CURRICULUM

## MODULE 3: DEEP LEARNING & NEURAL NETWORK

- Deep Learning Basics: Examples, concepts, how it works; Image Detection
- Practical session on simple Machine Learning Model- Part 2
- Project: Machine Learning, Neural Network- Part 1:
  - -Working on the chosen dataset
  - -Test existing models of machine learning or deep learning
  - -Extract visualisation of results

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## MODULE 4: AI ETHICS & NEURAL NETWORKS

- Project: Machine Learning, Neural Network- Part 2
- Ethics of AI- Open discussion with example of ethics dilemma, Biased dataset, health related question, sensitive data learning, etc
- Project: Ethics- Reflexion on ethics implication of the chosen dataset

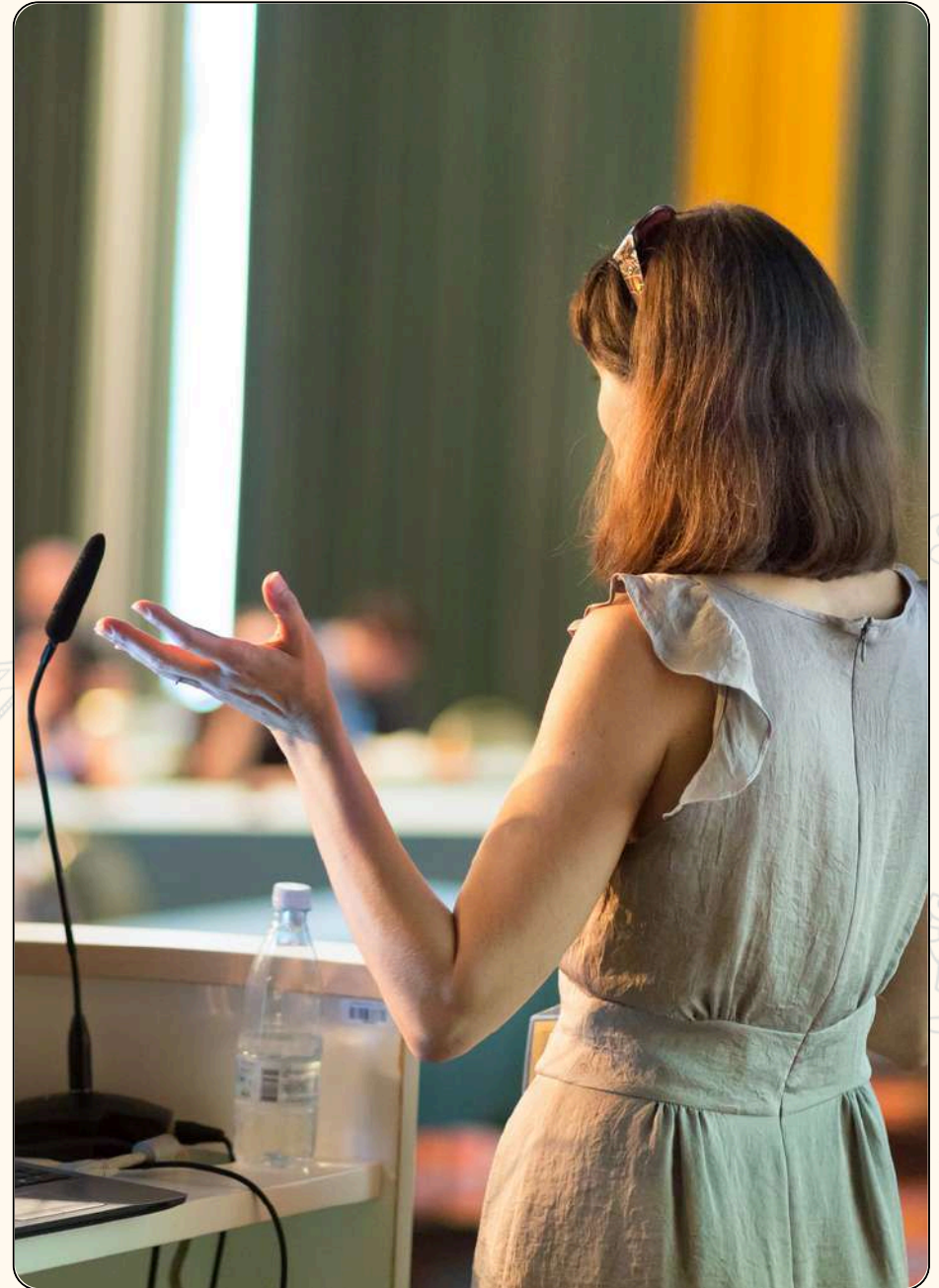
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## MODULE 5: GENERATIVE AI: MECHANISMS, EXAMPLES & HANDS-ON PROJECTS

- Generative AI: LLM, examples; Mechanisms behind generative AI
- Project: Generative AI- Output production by generative AI; What kind of result could be generated on the chosen dataset
- Project presentation
- Awards Ceremony

THE CURRICULUM



# KNOW YOUR MENTOR

Dr. Etienne Mauffret holds a Doctorate in Computer Science from Université Savoie-Mont Blanc.

He has served as a temporary teacher-researcher at ENS Lyon and has conducted research at Pierre et Marie Curie University, Polytech' Annecy Chambéry, and ENS de Lyon.

## ***Dr. Etienne Mauffret***

Prof. & Head of the Master of Science  
Data Engineering

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\*Please note that the mentor featured here is from a previous cohort of this workshop. A mentor with a similar background and expertise will be joining us for this cohort.\*





# Aivancity' s Understanding **AI & Big Data**



Lead . Inspire . Solve . Share

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